

ANNUAL REPORTING OF IMPLEMENTATION OF THE ICCAT MANAGEMENT STANDARD FOR LARGE-SCALE TUNA LONGLINE VESSELS

a. Management in the fishing grounds

	Scientific Observer boarding	Satellite-based vessel monitoring system	Daily or required periodic catch report	Entry/Exit report
	Yes	Yes	Yes	Yes
Note	See section 2.2.9	Required on all vessels with pelagic longline gear on board and permitted to fish for swordfish/tuna using longline gear (effective 9/1/2003)	Vessel logbook program ¹	Vessel logbook program ¹

b. Management of transshipment (from the fishing grounds to the landing ports)

	Transshipment report	Port inspection	Statistical document program
	No		
Note	Transshipment prohibited per 50 CFR 635.29	See below	See below

c. Management at landing ports

	Landing inspection	Landing reporting	Cooperation with other Parties
	Yes	Yes	Yes
Note	Port sampling program ²	Vessel logbook program, Dealer reporting program ³ , Bluefin Statistical Document, Swordfish Certificate of Eligibility	

¹Vessel logbook program. Annual vessel permits are required for commercial and recreational vessels targeting Atlantic tunas (bluefin, yellowfin, bigeye, albacore, and skipjack), U.S. commercial vessels fishing for swordfish, and commercial vessels fishing for Atlantic sharks in the U.S. Exclusive Economic Zone (EEZ). All commercially permitted vessels are selected to submit vessel logbooks. Logbooks contain information on fishing vessel activity, including dates of trips, number of sets, area fished (lat./long.), number of fish and other marine species caught, released and retained. In some cases, social and economic data such as volume and cost of fishing inputs are provided. Logbooks must be filled out within 48 hours of completing a day's fishing activities for multiple-day fishing trips or, before offloading for 1-day trips. Logbooks must be mailed within 7 days of offloading.

²Port sampling program. Port sampling agents are stationed at major ports along the Atlantic and Gulf of Mexico coasts to collect biological samples and size frequency, age-at-length, catch per unit effort, and catch composition data. Port samplers routinely visit major fish dealers and randomly sample catches.

³Dealer reporting program. Dealer permits are required for the commercial receipt of Atlantic tuna, swordfish, and sharks. Bluefin tuna dealers report imports through the Bluefin Statistical Document, as described below, while swordfish dealers report through the dealer import form. Dealer reports must be submitted to NMFS twice a month for all swordfish, sharks and tunas. Dealers are required to record each purchase of Atlantic bluefin tuna on a landing card and provide the information to NMFS within 24 hours of the purchase or receipt of the fish. The landing cards, which are used to monitor the bluefin tuna quota, include the following information: dealer number, dealer name, date the fish was landed, harvest gear, fork length, weight (whole or dressed), identification tag number, area where fish was caught, port where landed, Atlantic tuna permit number, vessel name, and the name and dated signature of the vessel's master.

NOAA ENFORCEMENT ACTIONS TAKEN ON ICCAT SPECIES

September 1, 2002 - August 31, 2003

During the reporting period, enforcement efforts consisted of dockside monitoring of offloads at major landing facilities in conjunction with dealer record checks, as well as at-sea boardings and visits to a limited number of concerned recreational marinas. Enforcement officials detected the following violations:

<u>Prohibition</u>	<u>Number of Cases</u>	<u>Disposition/Status</u>
Illegal sale or purchase of billfish (635.31(b))	2	Written warnings
Illegally possess HMS w/o vessel permit (635.71(a)(2))	2	Open investigations
	3	Written warnings
	2	Sent to GCEL
	1	NOVA ¹ Issued
Selling Atlantic HMS w/o dealer permit (635.71(a)(3))	4	Open investigation
	1	Sent to GCEL
Selling Atl. HMS to non-permittted dealer (635.71(a)(4))	1	Sent to GCEL
	1	Open investigation
Failure to have permit at vessel or dealer or permit was altered (635.71(a)(5))	1	Sent to GCEL
Falsify or fail to record required information (635.71(a)(6))	1	Sent to GCEL
	1	Settlement agreement by GCEL
Failure to identify gear (635.71(a)(10))	1	Open investigation
Did not take an observer when required (635.71(a)(11))	1	Written warning
	1	Settlement agreement by GCEL
Resist, oppose, impede a Law Enforcement Officer (635.71(a)(12))	1	Settlement agreement by GCEL
HMS not in specified form (635.71(a)(21))	1	Written warning
Possess undersized HMS (635.71(a)(22))	2	Written warnings
	1	Summary Settlement Paid (SS)
Unrestricted use of Pelagic Longline (PLL) gear (635.71(a)(23))	1	Written warning
	1	Sent to GCEL
Improper importation of Atl. HMS (635.71(a)(24))	1	Written warning

¹ Notice of Violation and Assessment

<u>Prohibition</u>	<u>Number of Cases</u>	<u>Disposition/Status</u>
Violate any provision of M-SA or ATCA (635.71(a)(28))	1	Open investigation
Land, purchase, sell illegal HMS species (635.71(a)(29)(i))	1	Sent to GCEL
Gear deployed in closed area (635.71(a)(30))	1	Sent to GCEL
Improper gear used in closed area (635.71(a)(31))	1	Sent to GCEL
Resist, oppose, impede a NMFS employee (635.71(a)(35))	1	Settlement agreement satisfied
Fish for Atl. Tuna w/o a vessel permit (635.71(b))	1	Open investigation
Exceed BFT catch limit (635.71(b)(12))	2	Written warnings
Billfish caught using PLL gear (635.71(c)(1))	1	SS Paid
Fail to maintain Billfish in specified form (635.71(c)(3))	1	Written warning
Illegal sale or purchase of Billfish (635.71(c)(4))	6 1	Written warnings SS Paid
Undersized Billfish (635.71(c)(5))	1	NOVA Issued
Purchase, sell or import Swordfish w/o permit (635.71(e)(1))	2	Written warnings
Unrestricted sale or purchase of Swordfish (635.71(e)(7))	1 1	Open investigation Sent to GCEL

Appendix Table 2.1-YFT. Annual Landings (MT) of Yellowfin Tuna from 1998 to 2002.

Area	Gear					
		1998	1999	2000	2001	2002
NW Atlantic	Longline	464.9	581.3	734.5	631.8	399.7
	Rod and reel*	2845.7	3818.2	3809.5	3690.5	2878.2
	Troll	177.5	0.0	0.0	0.0	0.0
	Gillnet	1.7	0.2	0.2	7.6	5.0
	Trawl	0.7	4.1	1.8	2.7	0.3
	Handline	0.0	192.0	235.7	242.5	127.5
	Trap	0.1	0.8	0.5	0.1	0.2
	Uncl	0.0	2.1	1.3	6.8	3.2
Gulf of Mexico	Longline	1864.5	2736.6	2133.0	1505.5	2104.3
	Rod and reel*	80.9	149.4	52.3	494.2	136.8
	Handline	60.8	12.7	28.6	43.4	92.3
	Gillnet	0.0	**	0.0	0.0	0.0
Caribbean	Longline	58.6	24.4	11.8	23.1	11.8
	Rod and reel*	-	-	-	0.1	52.3
	Handline	3.9	14.5	19.4	14.3	7.2
	Gillnet	0.0	0.0	0.1	0.3	**
	Trap	0.0	0.1	0.3	0.3	0.3
NC Area 94a	Longline	4.6	0.2	2.1	3.5	0.1
SW Atlantic	Longline	55.3	32.4	19.8	36.2	26.1
All Gears & Areas		5619.2	7569.0	7050.7	6703.1	5845.3

** \leq 0.05 MT

* Rod and Reel catches and landings represent estimates of landings and dead discards based on statistical surveys of the U.S. recreational harvesting sector.

Appendix Table 2.1-SKJ. Landings (MT) of Skipjack Tuna from 1998 to 2002						
Area	Gear	1998	1999	2000	2001	2002
NW Atlantic	Longline	0.7	0.3	0.0	0.1	**
	Rod and reel*	49.5	63.6	13.1	32.9	26.7
	Troll	0.4	0.0	0.0	0.0	0.0
	Gillnet	16.9	26.5	1.9	3.6	**
	Trawl	0.2	1.0	0.0	0.2	**
	Handline	0.0	0.2	0.2	0.2	0.2
	Trap	0.0	17.5	0.0	**	**
Gulf of Mexico	Longline	0.6	0.4	0.2	0.2	**
	Rod and reel*	37.0	34.8	16.7	16.1	13.3
	Handline	0.0	0.4	0.7	0.0	0.0
	Uncl	0.0	0.0	0.0	0.0	0.0
Caribbean	Longline	0.0	1.3	1.6	3.6	2.3
	Gillnet	0.0	0.4	0.6	1.6	0.6
	Handline	0.0	5.8	8.8	10.0	12.2
	Trap	0.0	0.1	0.3	0.4	0.6
	Rod and reel*	-	-	-	-	33.5
SW Atlantic	Longline	0.0	0.0	0.0	0.0	0.0
All Gears & Areas		105.3	152.3	44.1	68.9	89.6

** \leq 0.05 MT

* Rod and Reel catches and landings represent estimates of landings and dead discards based on statistical surveys of the U.S. recreational harvesting sector.

Appendix Table 2.1-BET. Landings (MT) of Bigeye tuna by year for 1998-2002.

Area	Gear					
		1998	1999	2000	2001	2002
NW Atlantic	Longline	544.3	737.8	333.2	502.2	325.0
	Rod and reel*	228.0	316.1	34.4	366.2	50.9
	Troll	4.0	0.0	0.0	0.0	0.0
	Gillnet	0.4	0.2	0.0	0.2	0.0
	Handline	0.0	11.9	4.1	33.7	13.1
	Trawl	0.5	1.2	1.7	0.4	0.3
	Pound	0.0	0.0	0.0	0.0	0.0
	Uncl	0.0	0.9	0.0	1.0	0.0
Gulf of Mexico	Longline	25.6	54.6	44.5	15.3	41.0
	Rod and reel*	0.0	1.8	0.0	0.0	0.0
	Handline	0.1	0.2	0.1	0.5	0.6
Caribbean	Longline	48.5	23.2	13.7	31.9	29.6
	Handline	0.0	0.2	1.5	0.0	0.0
NC Area 94a	Longline	48.4	35.3	63.1	61.0	47.0
SW Atlantic	Longline	28.5	78.2	77.4	92.0	68.1
All Gears & Areas		928.3	1261.6	573.6	1104.4	575.6

* Rod and Reel catches and landings represent estimates of landings and dead discards based on statistical surveys of the U.S. recreational harvesting sector.

Appendix Table 2.2b-BFT. Landings (MT) of Bluefin tuna for 1998 to 2002.

Area	Gear					
		1998	1999	2000	2001	2002
NW Atlantic	Longline	30.5	25.1	22.8	17.7	8.4
	Handline	29.2	15.5	3.2	9.0	4.5
	Purse Seine	248.6	247.9	275.2	195.9	207.7
	Harp	133.1	115.8	184.2	101.9	55.5
	* Rod and reel (>145 cm LJFL)	610.4	657.5	632.8	993.4	1008.2
	* Rod and reel (<145 cm LJFL)	166.3	103.0	49.5	242.9	547.6
	Uncl	0.6	0.1	0.2	0.5	0.0
Gulf of Mexico	Longline	18.3	48.4	43.3	19.8	32.8
	* Rod and reel	0.0	0.4	0.9	1.7	1.5
NC Area 94a	Longline	-	-	-	-	8.7
All Gears		1237.0	1213.7	1212.1	1582.4	1874.9

* Rod and Reel catches and landings represent estimates of landings and dead discards when available based on statistical surveys of the

Appendix Table 2.2-ALB. Landings (MT) of Albacore tuna for 1998 to 2002.						
Area	Gear	1998	1999	2000	2001	2002
NW Atlantic	Longline	155.4	179.5	130.5	171.7	123.2
	Gillnet	40.1	27.0	0.8	3.3	2.5
	Handline	0.0	0.6	2.9	1.7	3.4
	Trawl	2.4	0.4	0.0	0.0	0.3
	Troll	5.8	0.0	0.0	0.0	0.0
	Rod and reel*	601.1	90.1	250.8	122.3	342.0
	Pound	0.9	0.4	0.0	0.0	0.0
	Uncl	0.0	0.0	0.1	0.1	**
Gulf of Mexico	Longline	3.9	3.8	4.1	4.9	9.5
	Rod and reel*	0.0	0.0	0.0	0.0	0.0
	Handline	0.0	**	0.0	0.0	0.0
Caribbean	Longline	17.8	8.3	9.2	8.7	8.4
	Trol	0.0	0.0	0.0	0.0	0.0
	Gillnet	0.0	0.2	0.1	0.5	**
	Trap	0.0	**	0.2	0.3	0.6
	Handline	0.0	3.8	5.0	2.2	2.7
NC Area 94a	Longline	1.6	1.5	2.6	6.1	5.0
SW Atlantic	Longline	1.4	1.4	0.9	2.4	1.0
All Gears & Areas		830.4	317	407.35	324.2	498.67

** \leq 0.05 MT

* Rod and Reel landings are estimates of landings and dead discards, when available.

Appendix Table 2.3-SWO. Catches and Landings (MT) of Swordfish for 1998 to 2002.

Area	Gear	1998	1999	2000	2001	2002
NW Atlantic	* Longline	1624.1	1872.3	1547.6	1225.1	1122.3
	Gillnet	36.3	0.0	0.0	0.0	0.1
	Handline	0.0	5.0	7.7	7.5	8.2
	Trawl	5.9	7.5	10.9	2.7	3.9
	Troll	0.7	0.0	0.0	0.0	0.0
	* unclassified	9.1	3.8	1.4	0.3	1.6
	Harpoon	1.5	0.0	0.6	7.4	2.8
	** Rod and Reel	4.7	21.3	15.6	1.5	48.3
	Trap	0.1	**	0.0	0.0	0.0
Gulf of Mexico	* Longline	633.1	579.6	631.7	494.6	547.5
	Handline	0.0	**	1.2	0.3	2.5
Caribbean	* Longline	516.0	260.5	331.9	347.0	324.7
	Trap	0.0	0.0	0.3	0.0	0.1
	Gillnet	0.0	0.0	0.0	0.0	0.0
	Handline	0.0	0.0	0.0	0.0	0.0
NC Atlantic	* Longline	658.6	650.0	804.6	420.6	592.9
S Atlantic	* Longline	170.1	185.2	143.8	149.3	53.8
All Gears& Areas		3660.2	3585.2	3497.1	2653.3	2708.7

* includes landings and estimated discards from scientific observer and logbook sampling programs.

** \leq 0.5 MT

Appendix Table 2.4-BIL. Landings (MT) and dead discards of Blue Marlin, White Marlin and Sailfish for 1999-2002.

Area	Gear	Blue Marlin				White Marlin				Sailfish			
		1999	2000	2001	2002	1999	2000	2001	2002	1999	2000	2001	2002
NW Atlantic	* Longline	22.0	28.8	10.9	17.3	18.6	10.3	5.1	11.5	13.7	11.2	2.2	0.4
	** Unclassified	0.0	0.1	0.0	0.2	0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0
	Rod and reel	24.8 +?	13.8 +?	9.0 +?	9.8 +?	-	-	-	-	-	-	-	-
Gulf of Mexico	* Longline	55.2	29.6	9.4	17.8	31.5	29.9	10.1	15.6	57.4	33.9	8.2	6.3
	Rod and reel	7.5 +?	4.7 +?	5.1 +?	4.4 +?	-	-	-	-	-	-	-	-
Caribbean	* Longline	1.6	0.5	1.2	0.8	5.0	0.5	0.7	1.5	0.5	0.1	0.0	0.2
	Rod and reel	4.6 +?	5.7 +?	2.3 +?	2.9 +?	-	-	-	-	-	-	-	-
	Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unknown & NC Area 94a	* Longline	1.6	0.7	0.9	1.5	1.1	0.1	0.6	0.7	0.0	0.1	0.3	**
SW Atlantic	* Longline	1.7	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0
***NW Atlantic & Caribbean & Gulf of Mex.	Rod and reel					5.2	1.3	3.4	5.6	163.0	75.7	57.8	103.0
	All Gears	119.0	83.9	38.8	54.7	62.0	42.1	19.9	35.3	234.6	121.1	68.5	109.9

* includes landings and estimated discards from scientific observer and logbook sampling programs.

** \leq 0.5 MT

*** Estimation method no longer provides area-specific information.

Appendix Table 2.6a-SHK. Estimates of U.S. commercial and recreational landings and dead discards for pelagic sharks in the U.S. Atlantic, Gulf of Mexico, and Caribbean.

Year	Commercial					Recreational			Discards			Total	
	mt (ww) ¹	mt (dw) ²	lb (dw) ³	av. weight ⁴	number ⁵	number ⁶	av. weight ⁷	lb (dw)	number	mt (ww)	lb (dw) ⁸	number	lb (dw)
1981						12,603	50.035	630,591				12,603	630,591
1982	45.41	23.17	51,077		1,354	20,015	50.996	1,020,685				21,369	1,071,762
1983	51.89	26.47	58,367		1,627	21,968	117.64	2,584,316				23,595	2,642,683
1984	49.12	25.06	55,250		1,538	23,295	67.489	1,572,156				24,833	1,627,406
1985	57.99	29.59	65,227		1,969	92,998	38.224	3,554,756				94,967	3,619,982
1986	68.50	34.95	77,049	66.850	2,385	42,572	65.631	2,794,043				44,957	2,871,091
1987	87.46	44.62	98,375	69.171	2,786	37,153	39.002	1,449,041	13,092	560.64	630,606	53,031	2,178,022
1988	129.48	66.06	145,639	68.958	3,915	32,993	41.271	1,361,654	13,655	468.74	527,237	50,563	2,034,530
1989	141.36	72.12	159,001	57.574	4,937	18,255	73.228	1,336,777	13,480	538.21	605,376	36,672	2,101,155
1990	102.74	52.42	115,566	67.221	3,274	11,630	41.246	479,691	13,955	795.97	895,300	28,859	1,490,557
1991	114.32	58.33	128,587	76.681	3,290	10,070	62.061	624,954	17,232	813.21	914,695	30,592	1,668,236
1992	139.81	71.33	157,258	73.737	4,111	16,304	39.219	639,427	8,939	298.31	335,538	29,354	1,132,222
1993	387.30	197.60	435,638	81.631	5,278	29,861	50.988	1,522,553	30,545	1,191.52	1,340,217	65,684	3,298,407
1994	513.46	261.97	577,535	82.713	6,688	5,638	68.280	384,963	13,410	637.71	717,294	25,736	1,679,791
1995	393.93	200.98	720,219	75.676	9,517	32,673	47.629	1,556,182	10,864	710.27	798,909	53,054	3,075,310
1996	402.03	205.12	760,364	81.934	9,280	18,534	33.697	624,540	22,153	949.22	1,067,682	49,967	2,452,586
1997	381.08	194.43	537,594	85.937	6,256	8,743	54.834	479,414	7,754	250.42	281,671	22,753	1,298,679
1998	267.07	136.26	505,275	83.184	6,074	11,762	35.977	423,161	6,002	280.09	315,044	23,838	1,243,480
1999	113.10	57.70	376,471	88.388	4,259	11,122	48.304	537,237	3,464	117.63	132,310	18,845	1,046,018
2000	191.15	97.53	350,705	69.280	5,062	13,346	16.749	223,532	7,495	216.13	243,102	25,903	817,339
2001	192.43	98.18	361,667	62.978	5,743	3,820	83.938	320,643	6,158	155.75	175,187	15,721	857,497
2002	174.06	88.81	305,637	60.717	5,034	4,732	87.152	412,403	5,335	92.73	104,302	15,101	822,343

¹ From weighout data sheets; ² Wet weight to dry weight conversion ratio is 1.96; ³ 1982-1994 data are from weighout data sheets, 1995-2002 data are the maximum of the combined southeast quota monitoring program/southeast and northeast general canvass estimate and the weighout estimate; ⁴ In pounds dressed weight from weighout data sheets; ⁵ 1982-1994 data are taken directly from weighout data sheets, 1995-2002 data obtained as the maximum of dividing values in fourth column (lb dw) by those in fifth column (av. weight) and the estimated number of sharks landed from the weighout data sheets; ⁶ Almost all recreational landings are from the MRFSS survey, for 2000-2002 data from Headboat and TXPWD were not yet available; ⁷ In pounds dressed weight; ⁸ Wet weight to dry weight conversion ratio is 1.96.

Appendix Table 2.6b-SHK Estimates of commercial and recreational landings and dead discards for blue sharks in the U.S. Atlantic, Gulf of Mexico, and Caribbean.

Year	Commercial					Recreational			Discards			Total	
	mt (ww) ¹	mt (dw) ²	lb (dw) ³	av. weight ⁴	number ⁵	number ⁶	av. weight ⁷	lb (dw)	number	mt (ww)	lb (dw) ⁸	number	lb (dw)
1981						4,925	46.653	229,766				4,925	229,766
1982	0	0	0		0	0	46.653	0				0	0
1983	0	0	0		0	14,593	46.653	680,807				14,593	680,807
1984	0	0	0		0	2,579	46.653	120,318				2,579	120,318
1985	0	0	0		0	11,621	33.003	383,528				11,621	383,528
1986	0.40	0.20	450	148.500	6	18,898	66.182	1,250,707				18,904	1,251,157
1987	0	0	0	56.412	0	20,683	47.545	983,373	12,506	526.2	591,868	33,189	1,575,241
1988	0.10	0.05	112	56.412	4	12,235	32.62	399,106	12,934	421.16	473,719	25,173	872,937
1989	0	0	0	56.412	0	7,419	41.011	304,261	12,525	480	539,902	19,944	844,163
1990	0.25	0.13	286	56.412	6	1,745	56.134	97,954	13,141	741.33	833,845	14,892	932,084
1991	0	0	0	56.412	0	6,643	52.12	346,233	16,562	772.32	868,702	23,205	1,214,936
1992	0.47	0.24	529	67.769	14	5,853	41.191	241,091	7,043	184.39	207,401	12,910	449,021
1993	7.88	4.02	8860	75.188	85	14,114	53.567	756,045	29,329	1,136.33	1,278,139	43,528	2,043,044
1994	7.82	3.99	8796	79.960	105	507	46.653	23,653	11,986	572.24	643,653	12,598	676,103
1995	3.61	1.84	4059	66.557	61	464	46.653	21,647	9,725	618.15	695,293	10,250	720,998
1996	5.40	2.76	17920	70.819	253	9,150	34.07	311,741	18,996	710.69	799,381	28,399	1,129,042
1997	1.42	0.72	1598	52.933	31	4,236	55.74	236,115	6,614	184.605	207,643	10,881	445,356
1998	2.87	1.46	3228	40.873	79	6,085	46.653	283,884	5,295	195.25	219,616	11,459	506,728
1999	0.16	0.08	1111	6.725	165	5,218	46.653	243,435	2,772	98.96	111,310	8,155	355,856
2000	0.61	0.31	3508	62.634	56	7,010	46.653	327,038	6,298	137.19	154,311	13,364	484,856
2001	3.09	1.58	3476	40.579	86	950	46.653	44,320	5,219	105.87	119,082	6,255	166,879
2002	0.20	0.10	225	56.500	4	0	46.653	0	4,335	67.87	76,340	4,339	76,565

¹ From weighout data sheets; ² Wet weight to dry weight conversion ratio is 1.96; ³ 1982-1994 data are from weighout data sheets, 1995-2002 data are the maximum of the combined southeast quota monitoring program/southeast and northeast general canvass estimate and the weighout estimate; ⁴ In pounds dressed weight from weighout data sheets, values for 1987-1991 are taken as the mean of 1992-2002 values; ⁵ 1982-1994 data are taken directly from weighout data sheets, 1995-2002 data obtained as the maximum of dividing values in fourth column (lb dw) by those in fifth column (av. weight) and the estimated number of sharks landed from the weighout data sheets; ⁶ Almost all recreational landings are from the MRFSS survey, for 2000-2002 data from Headboat and TXPWD were not yet available; ⁷ In pounds dressed weight, values for 1981-84, 1994-95, and 1998-2002 are taken as the mean of 1985-93 and 1996-97 values for which n>=5; ⁸ Wet weight to dry weight conversion ratio is 1.96.

Appendix Table 2.6c-SHK. Estimates of commercial and recreational landings and dead discards for shortfin makos in the U.S. Atlantic, Gulf of Mexico, and Caribbean.

Year	Commercial					Recreational			Discards			Total	
	mt (ww) ¹	mt (dw) ²	lb (dw) ³	av. weight ⁴	number ⁵	number ⁶	av. weight ⁷	lb (dw)	number	mt (ww)	lb (dw) ⁸	number	lb (dw)
1981						7,678	56.395	433,001				7,678	433,001
1982	42.12	21.49	47,376		1298	13,522	50.996	689,568				14,820	736,944
1983	6.78	3.46	7,626		225	7,375	56.141	414,039				7,600	421,665
1984	42.46	21.66	47,759		1436	15,474	67.531	1,044,975				16,910	1,092,734
1985	53.24	27.16	59,884		1877	79,912	41.487	3,315,309				81,789	3,375,193
1986	64.76	33.04	72,842	64.9361	2,318	20,792	70.107	1,457,665				23,110	1,530,507
1987	77.84	39.71	87,554	65.7712	2,592	14,809	35.069	519,337	217	8.72	9,808	17,618	616,699
1988	101.37	51.72	114,021	63.0954	3,398	19,998	44.693	893,771	127	5.08	5,714	23,523	1,013,505
1989	124.56	63.55	140,105	55.771	4,608	8,367	90.117	754,009	249	9.01	10,134	13,224	904,248
1990	91.77	46.82	103,223	63.8425	3,081	8,509	35.483	301,925	259	10.307	11,593	11,849	416,741
1991	104.87	53.51	117,957	75.5015	3,085	3,422	69.020	236,186	245	11.16	12,553	6,752	366,697
1992	125.97	64.27	141,691	71.8326	3,782	8,382	33.589	281,543	771	38.41	43,203	12,935	466,437
1993	281.09	143.41	316,164	77.355	4,044	15,034	49.883	749,941	562	24.03	27,029	19,640	1,093,134
1994	324.66	165.64	365,177	76.7173	4,623	4,496	79.296	356,515	558	21.45	24,127	9,677	745,818
1995	288.83	147.36	324,870	71.2094	4,562	31,212	51.227	1,598,897	446	28.44	31,989	36,220	1,955,756
1996	238.05	121.46	267,762	83.2385	3,217	8,618	30.265	260,824	0	0	0	11,835	528,586
1997	245.46	125.23	276,089	84.574	3,264	3,025	60.839	184,038	0	0	0	6,289	460,127
1998	199.76	101.92	224,689	82.327	2,729	5,633	29.590	166,680	0	0	0	8,362	391,370
1999	90.05	45.94	150,073	87.763	2,262	1,383	56.141	77,643	0	0	0	3,645	227,716
2000	166.74	85.07	187,546	66.185	2,836	5,808	56.141	326,066	0	0	0	8,644	513,613
2001	182.02	92.87	204,735	63.154	3,242	2,870	83.938	240,902	0	0	0	6,112	445,637
2002	165.59	84.48	186,255	61.024	3,060	3,199	87.152	278,799	0	0	0	6,259	465,054

¹ From weighout data sheets; ² Wet weight to dry weight conversion ratio is 1.96; ³ 1982-1994 data are from weighout data sheets, 1995-2002 data are the maximum of the combined southeast quota monitoring program/southeast and northeast general canvass estimate and the weighout estimate; ⁴ In pounds dressed weight from weighout data sheets; ⁵ 1982-1994 data are taken directly from weighout data sheets, 1995-2002 data obtained as the maximum of dividing values in fourth column (lb dw) by those in fifth column (av. weight) and the estimated number of sharks landed from the weighout data sheets; ⁶ Almost all recreational landings are from the MRFSS survey, for 2000-2002 data from Headboat and TXPWD were not yet available; ⁷ In pounds dressed weight, values for 1983 and 1999-2000 are taken as the mean of 1981-82, 1984-98, and 2001-02 values for which n>=5; ⁸ Wet weight to dry weight conversion ratio is 1.96.